NC/QC/W-13/2019-20/BA-C1 Date: 03-08-2019

## 1. TEST REPORT ON CEMENT:

**Sub**: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Providing basic amenities Procurement of dustbins and SWM works in ward No.13 Mallasandra.}
**Ref.:** Material testing/W-13/QC/19-20,
Report Required for: Assistant Executive Engineer,
Shettyhalli Sub division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

### PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

**TABLE 1.1:**

| SL No | Name of Test | Test Results | Requirements as per IS 8112-1989 |
|---|---|---|---|
| 1 | Initial setting time | **163 min** | Shall not be less than 30 min |
| 2 | Final setting time | **278 min** | Shall not be more than 600 min |
| 3 | Fineness (by dry sieving on IS 90 micron sieve) | **1.91 %** | Not to exceed 10.0% |
| 4 | Soundness test(by Le-Chatelier's method) | **2.04 mm** | Shall not be more than 10 mm |
| 5 | Compressive strength<br>a) 3 days (average of three results) | **29.36 N/Sq mm** | Shall not be less than 27 N/Sqmm |

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NC/QC/W-13/2019-20/BA-PCC1 **Date: 03-08-2019**

## 1. TESTING OF COARSE AND FINE AGGREGATES:

**Sub**: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Providing basic amenities Procurement of dustbins and SWM works in ward No.13 Mallasandra.}
**Ref.:** Material testing/W-13/QC/19-20,
Report Required for: Assistant Executive Engineer,
Shettyhalli Sub division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

### 1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

| IS Sieve Size, mm | Percentage passing | Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing | |
|---|---|---|---|
| | 40 mm Sample | Single size | Graded |
| 40mm | **100.00** | 100.00 | 100.00 |
| 20mm | **96.10** | 85-100 | 95 - 100 |
| 10mm | **47.65** | 0 - 20 | 25 - 55 |
| 4.75mm | **8.20** | 0 - 5 | 0 - 10 |

### 2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

| IS Sieve Size, mm | Percentage Passing | Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing | | | Remarks |
|---|---|---|---|---|---|
| | | Zone-I | Zone-II | Zone -III | |
| 04.75 | **95.85** | 90-100 | 90-100 | 90-100 | The Sample Conforms to Grading **Zone-II** |
| 02.36 | **83.60** | 60-95 | 75-100 | 85-100 | |
| 01.18 | **78.05** | 30-70 | 55-90 | 75-100 | |
| 600.mic | **46.95** | 15-34 | 35-59 | 60-79 | |
| 300.mic | **20.45** | 5-20 | 8-30 | 12-40 | |
| 150.mic | **7.65** | 0-10 | 0-10 | 0-10 | |

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NC/QC/W-13/2019-20/BA-C2 Date: 08-08-2019

## 1. TEST REPORT ON CEMENT:

**Sub**: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Providing basic amenities Procurement of dustbins and SWM works in ward No.13 Mallasandra.}
**Ref.:** Material testing/W-13/QC/19-20,
Report Required for: Assistant Executive Engineer,
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BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

### PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

**TABLE 1.1:**

| SL No | Name of Test | Test Results | Requirements as per IS 8112-1989 |
|---|---|---|---|
| 1 | Initial setting time | **159 min** | Shall not be less than 30 min |
| 2 | Final setting time | **264 min** | Shall not be more than 600 min |
| 3 | Fineness (by dry sieving on IS 90 micron sieve) | **2.14 %** | Not to exceed 10.0% |
| 4 | Soundness test(by Le-Chatelier's method) | **2.01 mm** | Shall not be more than 10 mm |
| 5 | Compressive strength<br>b) 3 days (average of three results) | **28.49 N/Sq mm** | Shall not be less than 27 N/Sqmm |

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**NC/QC/W-13/2019-20/BA-PCC2** **Date: 08-08-2019**

## 1. TESTING OF COARSE AND FINE AGGREGATES:

**Sub**: Testing of Coarse and Fine aggregates to be used for bed concrete.
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|---|---|---|---|
| | 40 mm Sample | Single size | Graded |
| 40mm | **100.00** | 100.00 | 100.00 |
| 20mm | **98.60** | 85-100 | 95 - 100 |
| 10mm | **41.25** | 0 - 20 | 25 - 55 |
| 4.75mm | **8.55** | 0 - 5 | 0 - 10 |

### 2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

| IS Sieve Size, mm | Percentage Passing | Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing | | | Remarks |
|---|---|---|---|---|---|
| | | Zone-I | Zone-II | Zone -III | |
| 04.75 | **95.35** | 90-100 | 90-100 | 90-100 | The Sample Conforms to Grading **Zone-II** |
| 02.36 | **81.20** | 60-95 | 75-100 | 85-100 | |
| 01.18 | **78.90** | 30-70 | 55-90 | 75-100 | |
| 600.mic | **44.65** | 15-34 | 35-59 | 60-79 | |
| 300.mic | **19.40** | 5-20 | 8-30 | 12-40 | |
| 150.mic | **8.55** | 0-10 | 0-10 | 0-10 | |

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